**Obsah**

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1. Containers and Orchestration
   1. Hypervisor

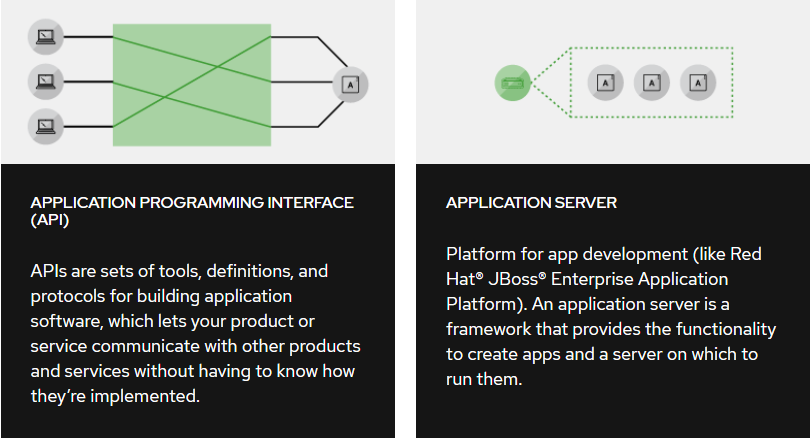
A hypervisor or virtual machine monitor (VMM) is computer software, firmware or hardware that creates and runs virtual machines. A computer on which a hypervisor runs one or more virtual machines is called a host machine, and each virtual machine is called a guest machine.

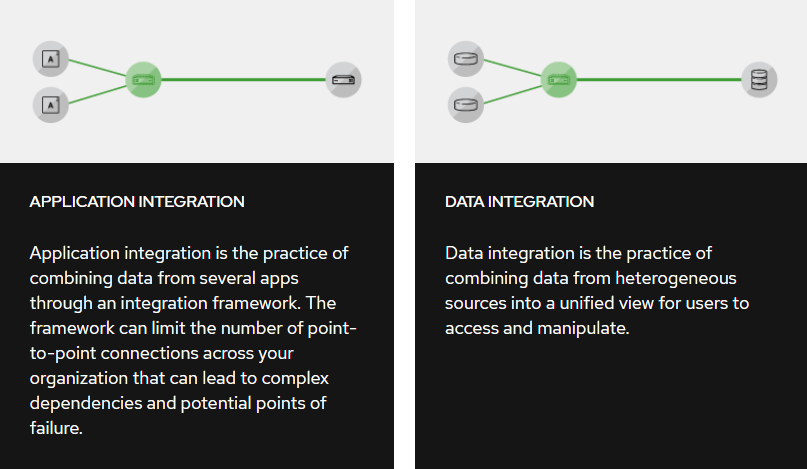
JVM, HyperV

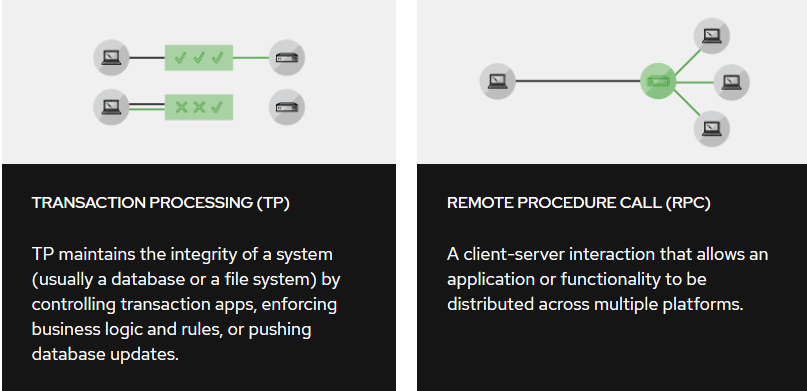
* 1. Middleware

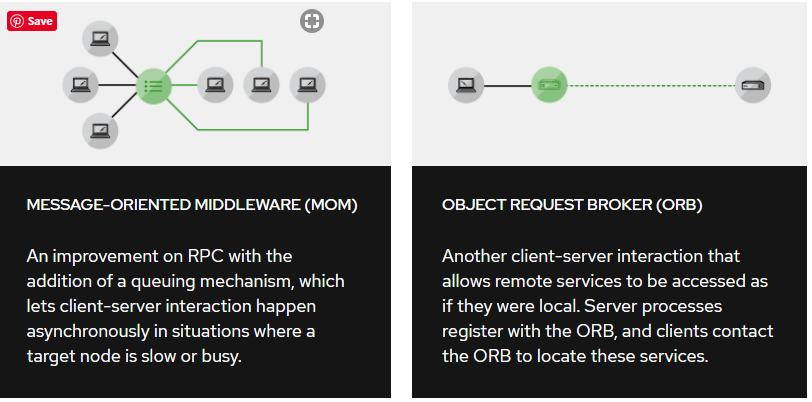
Middleware is multipurpose software that provides services to applications outside of what’s offered by the operating system. Any software between the kernel and user apps can be middleware.

Analyst and system theorist Nick Gall said, "Middleware is software about software." Middleware doesn’t offer the functions of a traditional app, it connects software to other software. Middleware is plumbing for your IT infrastructure because middleware allows data to flow from one app to another. For instance, Apache Kafka is open source middleware that offers real-time data streaming capabilities for your applications.









1. Elastic Beanstalk

***Simply****,.* ***quickly****, you* ***don’t need*** *control over infrastructure, you* ***dont care****, you just want it to be working*

Use Cases:

* You want to spend minimal time learning/configuring infrastructure
* Quick prototyping and testing
* Shorter application lifecycles
* Maintain some flexiblity over the resources powering your apps

Anti-patterns

* When you need complete control over resource configurations
* Existing apps can be difficult to fit in the EB model
* Can get complicated if you have a lot of dependencies